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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/464,636	12/15/1999	RICHARD DIEVENDORFF	3382-49606	7885

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EXAMINER

ZHEN, LI B

ART UNIT PAPER NUMBER

2126

DATE MAILED: 09/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/464,636

Applicant(s)

DIEVENDORFF ET AL.

Examiner

Li B. Zhen

Art Unit

2126

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 May 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte* Quayle, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 and 16-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-5, 9-14 and 16-18 is/are allowed.
- 6) ☒ Claim(s) 6-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 5/24/04
- 4) ☒ Interview Summary (PTO-413)
Paper No(s)/Mail Date 9/13/04
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. Claims 1 – 14 and 16 – 18 are pending in this application. Claim 15 is cancelled.

Allowable Subject Matter

2. Claims 1 – 5, 9 – 14 and 16 – 18 are allowed.

Response to Arguments

1. Applicant's arguments with respect to claims 6 – 8 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 6 – 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,567,861 to Kasichainula in view of U.S. Patent No. 6,651,109 to Beck and U.S. Patent No. 5,826,270 to Rutkowski.

5. As to claim 6, Kasichainula teaches the invention substantially as claimed including a method of yielding results from processing work of a first component to a second component [Object Z 504 returns the result 521, if any, of the invocation to

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object Z" 513, which returns said result 522 to object Z' 512, which returns 507 said result to object Y 503; col. 8, line 62 – col. 9, line 5 of Kasichainula], the method comprising:

responsive to a client program issuing a first set of method invocations for the first component [Object X 502 is shown making a remote method call to object Y 503, and object Z 504 is one of the parameters; col. 7, lines 55 – 67 of Kasichainula]; and

when marshaling an interface pointer reference to the second component in any of the method invocations issued by the client program for the first component [object Y' examines the call and realizes that complex object Z 504 is one of the parameters; col. 7, lines 55 – 67 of Kasichainula], incorporating interface passing information in the data marshaled into the message [object Y' passes the call to object Y via Remote Method Invocation or some other standard remote calling method 514, and a reference to Z" is provided in place of Z as the parameter in the call; col. 8, lines 19 – 32 of Kasichainula], the interface passing information [a reference to Z" is provided in place of Z as the parameter in the call; col. 8, lines 19 – 32 of Kasichainula] designating to send any method invocation by the first component on an interface of the second component referenced by the interface pointer reference into a second message component [Object Z 504 returns the result 521, if any, of the invocation to object Z" 513, which returns said result 522 to object Z' 512, which returns 507 said result to object Y 503; col. 8, line 62 – col. 9, line 5 of Kasichainula].

6. Although Kasichainula teaches the invention substantially as claimed, Kasichainula does not teach queued method invocations.

However, Beck teaches queued method invocation [sends the name of a method and related parameters to a message queue object 440, Fig. 4; col. 6, lines 52 – col. 7, lines 23] between a first object and a second object [col. 1, lines 60 – 67], marshaling data for the method invocations of the first set into a message to be enqueued into the first message queue [sends the name of a method and related parameters to a message queue object 440, Fig. 4; col. 6, lines 52 – col. 7, lines 23 of Beck].

7. It would have been obvious to a person of ordinarily skilled in the art at the time of the invention to apply the teaching of queued method invocations as taught by Beck to the invention of Kasichainula because queued method invocations allows asynchronous remote procedure calls which permits applications to send a remote method request and continue with other work without waiting for the request to complete.

8. Kasichainula as modified does not specifically teach performing method invocations with transactions.

However, Rutkowski teaches performing method invocations with transactions [col. 4, lines 45 – 67].

9. It would have been obvious to a person of ordinarily skilled in the art at the time of the invention to apply the teaching of performing method invocations with transactions as taught by Rutkowski to the invention of Kasichainula as modified by Beck because this provides a distributed database system and allows efficient access to data delivery servers.

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10. As to claim 7, Kasichainula as modified teaches responsive to the first queued component issuing a second set of method invocations, enqueueing the method invocations of the second set into the second message queue [sends the name of a method and related parameters to an message queue object 440, Fig. 4; col. 6, lines 52 – col. 7, lines 23 of Beck].

11. As to claim 8, Kasichainula as modified teaches passing the interface pointer reference in queued method invocations to multiple further queued components ["Send" method 431 forwards every method name and parameters received from the intermediary object 410 to the message queue object 440; col. 6, lines 50 – 67 of Beck]; and responsive to the first queued component and the multiple queued components issuing sets of method invocations on the interface of the second queued component, enqueueing the method invocations of each such set into the second message queue [sends the name of a method and related parameters to an message queue object 440, Fig. 4; col. 6, lines 52 – col. 7, lines 23 of Beck].

Conclusion

12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Li B. Zhen whose telephone number is (571) 272-3768. The examiner can normally be reached on Mon - Fri, 8:30am - 5pm.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

lbz
September 14, 2004

Li B. Zhen
Examiner
Art Unit 2126


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SUPERVISORY PATENT EXAMINER
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